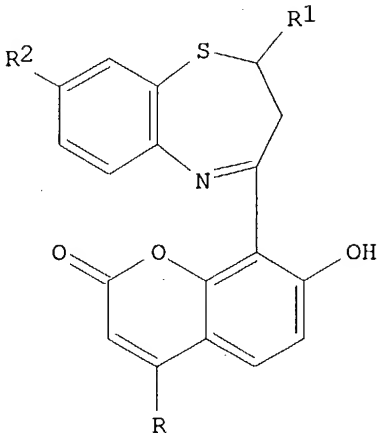
L3 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:354666 CAPLUS
DOCUMENT NUMBER: 135:137481
TITLE: Synthesis of some new 1,5-benzothiazepines containing 2H-1-benzopyran-2-one heterocycle
AUTHOR(S): Prashant, A.; Rao, S. Srinivas; Chowdary, K. S.; Krishnan, V. S. H.
CORPORATE SOURCE: Dr. Krishnan's Laboratories, Hyderabad, 072, India
SOURCE: Heterocyclic Communications (2001), 7(1), 61-66
CODEN: HCOMEX; ISSN: 0793-0283
PUBLISHER: Freund Publishing House Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:137481
GI

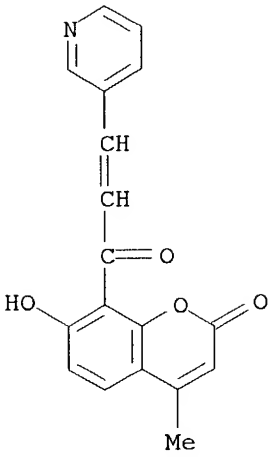


I

AB A facile procedure was developed for the synthesis of 2-aryl/heteryl-4-(2H-1-benzopyran-2-on-8-yl)-2,3-dihydro-1,5-benzothiazepines I [R = H, Me; R1 = Ph, 4-MeOC6H4, 2-thienyl, 3-O2NC6H4, 4-ClC6H4, 4-Me2NC6H4, 4-HO-3-MeOC6H3, 3,4-(MeO)2C6H3, 3-pyridyl; R2 = H, Cl 5a-o] in 50-70% yields by the cyclocondensation reaction of 1-(2H-1-benzopyran-2-one-8-yl)-3-aryl/heteryl-2-propenones with 2-amino-5-R2-thiophenols (R2 = H 4a Cl 4b) in toluene in the presence of trifluoroacetic acid.

IT **79692-52-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclocondensation reaction of, with aminothiophenols)

RN 79692-52-7 CAPLUS
CN 2H-1-Benzopyran-2-one, 7-hydroxy-4-methyl-8-[1-oxo-3-(3-pyridinyl)-2-propenyl]- (9CI) (CA INDEX NAME)



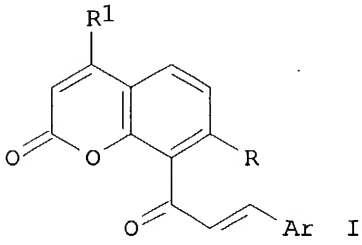
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:185740 CAPLUS
DOCUMENT NUMBER: 134:222628
TITLE: Preparation of 8-(arylpropenoyl)coumarins as antiproliferative agents
INVENTOR(S): Bombardelli, Ezio; Valenti, Piero
PATENT ASSIGNEE(S): Indena S.p.A., Italy
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001017984	A1	20010315	WO 2000-EP8367	20000828
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1212311	A1	20020612	EP 2000-965902	20000828
EP 1212311	B1	20030326		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003508523	T2	20030304	JP 2001-521731	20000828
AT 235480	E	20030415	AT 2000-965902	20000828
ES 2191643	T3	20030916	ES 2000-965902	20000828
US 2002161036	A1	20021031	US 2002-75625	20020215
NO 2002001048	A	20020503	NO 2002-1048	20020301
HK 1043997	A1	20030815	HK 2002-105581	20020730

PRIORITY APPLN. INFO.: GB 1999-20908 A 19990903
WO 2000-EP8367 W 20000828

OTHER SOURCE(S): MARPAT 134:222628
GI



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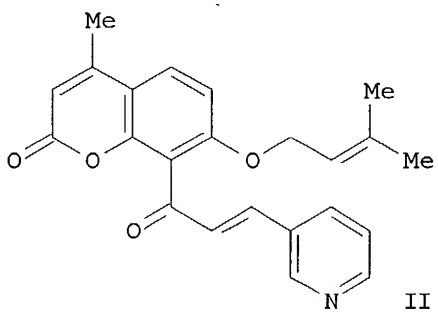


II

AB The title chalcone coumarins (I) [wherein Ar = (un)substituted (hetero)aryl; R = OH, OR10, or OCOR11; R10 = (un)substituted alkyl, alkenyl, or alkynyl; R11 = alkyl, alkenyl, alkynyl, or Ph; R1 = H or (un)substituted alkyl] were prepared as antiproliferative agents for the treatment or prevention of neoplasms, particularly those located in the

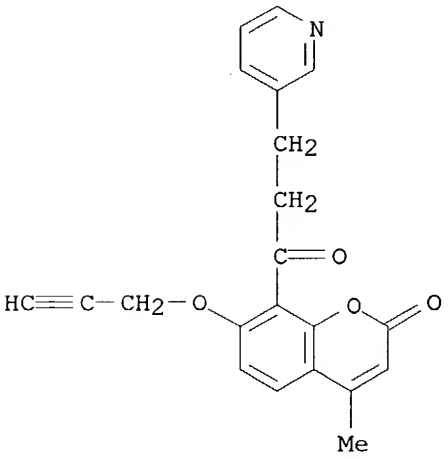
uterus, ovary, or breast. For example, coupling pyridine-3-carboxaldehyde with 4-methyl-7-(3-methylbut-2-enyloxy)-8-acetylcoumarin in KOH and EtOH afforded II, which reduced the IC50 of paclitaxel from 426 nM to 86 nM against drug-resistant breast cancer cells in a cytotoxicity assay. I may also be useful for the treatment or prevention of menopausal disorders and osteoporosis (no data).

same

IT **329366-53-2P**, 1-[4-Methyl-7-(prop-2-ynyloxy)coumarin-8-yl]-3-(pyridin-3-yl)propen-1-one
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of 8-(arylpropenoyl)coumarin antiproliferative agents by coupling 8-acetylcoumarins with arylaldehydes)

RN 329366-53-2 CAPLUS

CN 2H-1-Benzopyran-2-one, 4-methyl-8-[1-oxo-3-(3-pyridinyl)propyl]-7-(2-propynyloxy)- (9CI) (CA INDEX NAME)

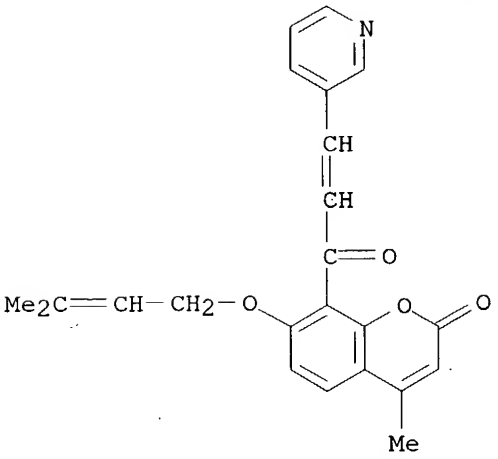


IT **329366-37-2P**, 1-[4-Methyl-7-(3-methylbut-2-enyloxy)coumarin-8-yl]-3-(pyridine-3-yl)propen-1-one **329366-41-8P**, 1-[4-Methyl-7-(2-methylallyloxy)coumarin-8-yl]-3-(pyridine-3-yl)propen-1-one **329366-47-4P**, 1-[4-Methyl-7-(allyloxy)coumarin-8-yl]-3-(pyridin-3-yl)propen-1-one
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 8-(arylpropenoyl)coumarin antiproliferative agents by coupling 8-acetylcoumarins with arylaldehydes)

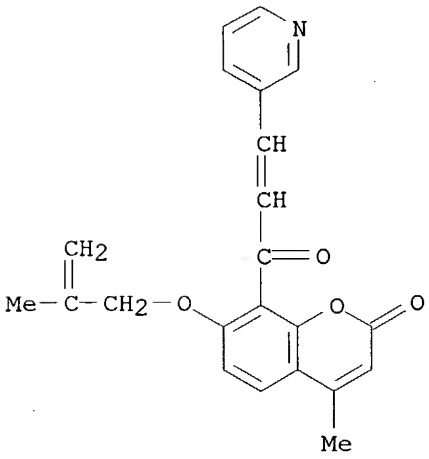
RN 329366-37-2 CAPLUS

CN 2H-1-Benzopyran-2-one, 4-methyl-7-[(3-methyl-2-butenyl)oxy]-8-[1-oxo-3-(3-pyridinyl)-2-propenyl]- (9CI) (CA INDEX NAME)

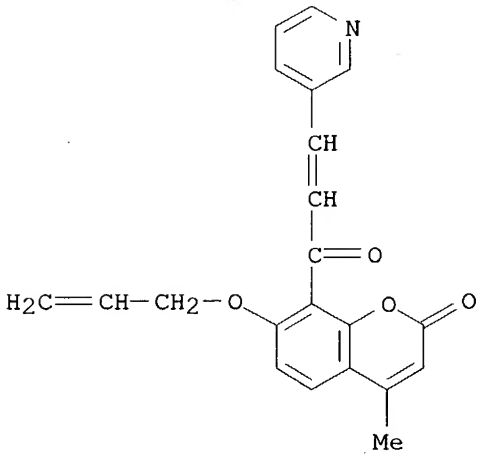
Same



RN 329366-41-8 CAPLUS
CN 2H-1-Benzopyran-2-one, 4-methyl-7-[(2-methyl-2-propenyl)oxy]-8-[1-oxo-3-(3-pyridinyl)-2-propenyl]- (9CI) (CA INDEX NAME)



RN 329366-47-4 CAPLUS
CN 2H-1-Benzopyran-2-one, 4-methyl-8-[1-oxo-3-(3-pyridinyl)-2-propenyl]-7-(2-propenyloxy)- (9CI) (CA INDEX NAME)



L3 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1981:603793 CAPLUS
DOCUMENT NUMBER: 95:203793
TITLE: Synthesis of 2'-(3''-pyridyl)-γ-pyranocoumarins and 3'-hydroxy-2'-(3''-pyridyl)-γ-pyranocoumarins
AUTHOR(S): Thakar, K. A.; Joshi, R. C.
CORPORATE SOURCE: Dep. Chem., Marathwada Univ., Aurangabad, 431 001, India
SOURCE: Journal of the Indian Chemical Society (1981), 58(9), 880-2
CODEN: JICSAH; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 95:203793
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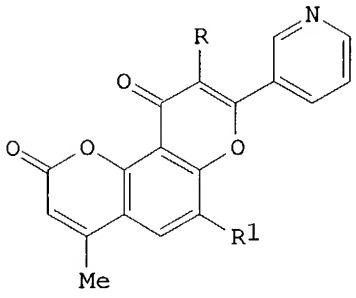

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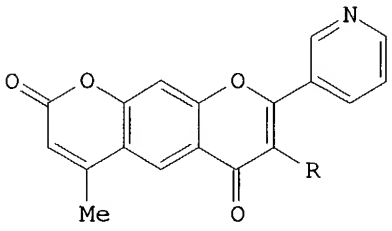

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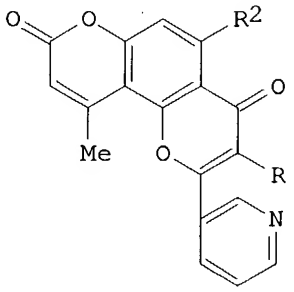


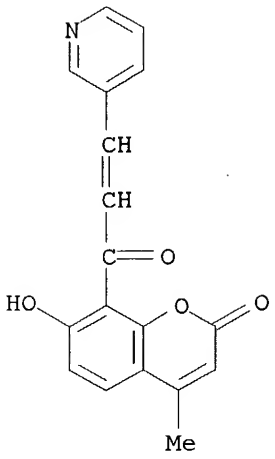
III

AB The title compds. I (R = H, OH; R1 = H, Et), II (R = H, OH), and III (R = H, OH; R2 = H, Me) were prepared from the corresponding o-hydroxyacetyl coumarin. Thus, 7-hydroxy-8-acetyl-4-Me coumarin was condensed with 3-pyridinecarboxaldehyde and the product cyclized by SeO2 to give I (R = R1 = H).

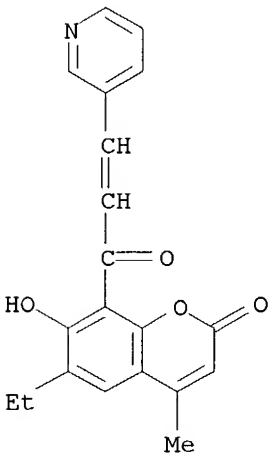
IT **79692-52-7P 79692-53-8P 79692-62-9P 79692-63-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, pyranocoumarin derivative from)

RN 79692-52-7 CAPLUS

CN 2H-1-Benzopyran-2-one, 7-hydroxy-4-methyl-8-[1-oxo-3-(3-pyridinyl)-2-propenyl]- (9CI) (CA INDEX NAME)



RN 79692-53-8 CAPLUS
CN 2H-1-Benzopyran-2-one, 6-ethyl-7-hydroxy-4-methyl-8-[1-oxo-3-(3-pyridinyl)-2-propenyl]- (9CI) (CA INDEX NAME)



RN 79692-62-9 CAPLUS
CN 1,3-Propanedione, 1-(7-hydroxy-4-methyl-2-oxo-2H-1-benzopyran-8-yl)-3-(3-pyridinyl)- (9CI) (CA INDEX NAME)

ANSWER 7 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1980:58620 CAPLUS
DOCUMENT NUMBER: 92:58620
TITLE: Pyridines
PATENT ASSIGNEE(S): UNICLER S. A., Fr.
SOURCE: Fr. Demande, 20 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2387956	A1	19781117	FR 1977-11871	19770420
FR 2387956	B1	19810109		

PRIORITY APPLN. INFO.: FR 1977-11871 19770420
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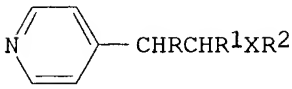
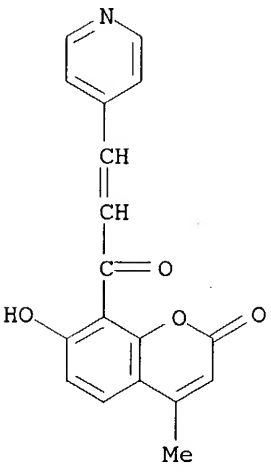


I

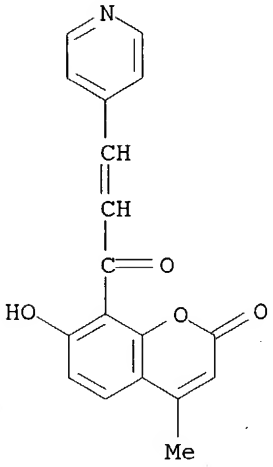
AB Pyridines I (R = R1 = H, RR1 = bond; R2 = substituted Ph, pyridyl, thienyl, furyl, benzofuranyl, styryl, quinolinyl; X = CO, CHOH, CH2, C:NOH) were prepared; they were useful in the treatment of hypoxia, decreased resistance to blood circulation in capillary vessels, increased capillary vessel permeability, and were coronary vasodilators. 4-Formylpyridine in 1% NaOH at room temperature was treated with 2,3,4-(MeO)3C6H2COMe in EtOH to give I [RR1 = bond, R2 = 2,3,4-(MeO)3C6H2, X = CO](II). II at 30 mg/kg increased the survival rate of rats at 150 mm Hg 24%.

IT **72512-20-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and treatment of anoxia by)

RN 72512-20-0 CAPLUS
CN 2H-1-Benzopyran-2-one, 7-hydroxy-4-methyl-8-[1-oxo-3-(4-pyridinyl)-2-propenyl]- (9CI) (CA INDEX NAME)



L6 ANSWER 47 OF 70 REGISTRY COPYRIGHT 2004 ACS on STN
RN **72512-20-0** REGISTRY
CN 2H-1-Benzopyran-2-one, 7-hydroxy-4-methyl-8-[1-oxo-3-(4-pyridinyl)-2-propenyl]- (9CI) (CA INDEX NAME)
MF C18 H13 N O4
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT